

J. F. LYONS.
 CARDBOARD DISPLAY BOX.
 APPLICATION FILED DEC. 15, 1920.

1,407,073.

Patented Feb. 21, 1922.

2 SHEETS—SHEET 1.

Fig. 2.

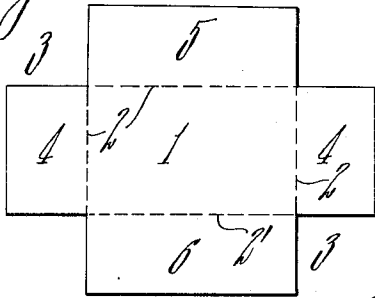


Fig. 1.

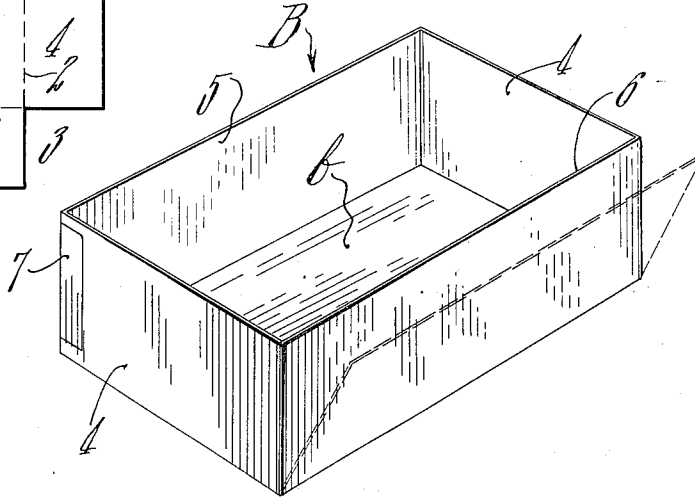


Fig. 3.

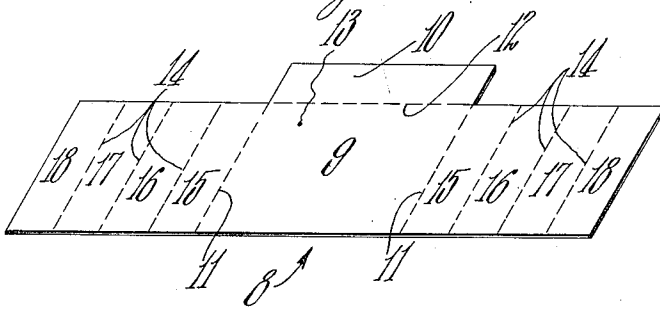
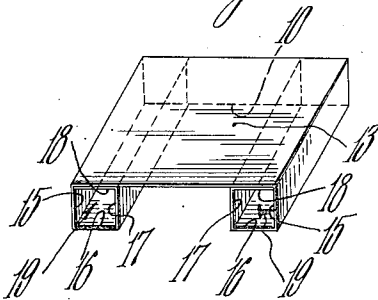


Fig. 4.

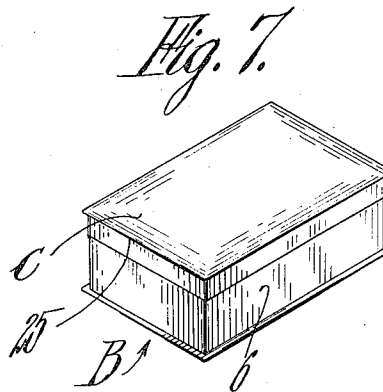
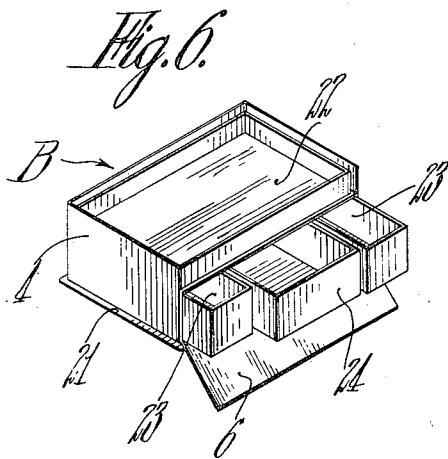
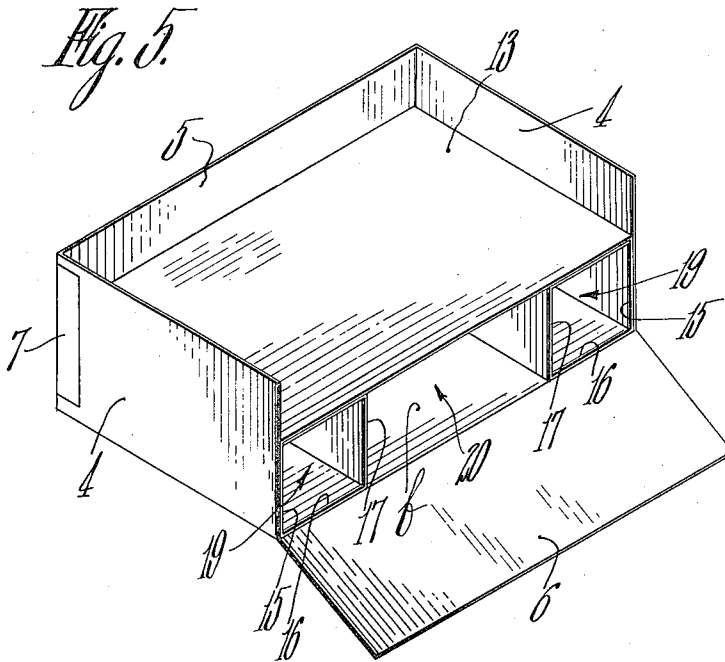


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UNITED STATES PATENT OFFICE.

JOHN F. LYONS, OF WEST SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO KIBBE BROTHERS COMPANY, OF SPRINGFIELD, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

CARDBOARD DISPLAY BOX.

1,407,073,

Specification of Letters Patent. Patented Feb. 21, 1922.

Application filed December 15, 1920. Serial No. 430,936.

To all whom it may concern:

Be it known that I, JOHN F. LYONS, a citizen of the United States, residing at West Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Cardboard Display Boxes, of which the following is a specification.

This invention relates to improvements in cardboard display boxes which, while capable of general application are particularly adapted for displaying candy and the like.

The general type of a display box to which my invention relates consists of a box having a hinged side arranged to be released by the removal of the cover to swing downwardly to expose a plurality of separate compartments in which are carried display trays, while a partition or shelf is provided above the said compartments for supporting a removable display tray in which articles such as candy may be displayed.

Boxes of this type, as heretofore made, are expensive to manufacture for the reason that the compartments and tray-supporting partition are constructed of a plurality of parts or sheets of material cut, bent and assembled to form the desired compartments and partition.

The object of the invention is to simplify the construction of such display boxes by the employment of the minimum number of parts folded in a manner to avoid waste of material and to provide a box of durable character and pleasing appearance.

Other objects and advantages will appear from the following description, and the novel features of the invention are included in the appended claims.

In the drawings,—

Fig. 1 is a perspective view of the body of the box;

Fig. 2 is a plan view of the box blank shown at a small scale;

Fig. 3 is a small scale isometric view of the partition and compartment-forming sheet;

Fig. 4 is an isometric view of the sheet shown in Fig. 3 bent to form tubes;

Fig. 5 is an isometric view of the box with the compartments inserted therein;

Fig. 6 is a small scale isometric view of a completed box with cover removed for display purposes; and

Fig. 7 is a similar view of a box with its cover holding the hinged side in place.

The preferred embodiment of the invention, now to be described, is particularly applicable for displaying candies or the like but may obviously be used for various other purposes.

The box body B is made from a blank 1 preferably of cardboard or the like and is properly scored for bending, as indicated by the dotted lines 2 and 2', and the corners 3 are cut out as is usual in box blanks of this character. The box body B is formed by bending the ends 4 and side 5 upwardly and securing the abutting edges thereof with corner-stays 7 in the usual and well-known manner. The side 6 of the box body is bent on the scoring 2', which scoring functions as a hinge to allow the side 6 to be swung from the position shown in Fig. 1 to the downward position shown in Figs. 5 and 6. The scoring 2' may be reinforced by suitable flexible strips (not shown) to strengthen the hinge to prevent the hinged side from becoming separated from the box body.

A sheet 8 of cardboard or the like for forming compartments and a tray-supporting shelf or portion is provided and comprises a rectangular portion 9 preferably having a laterally projecting portion 10 intermediate the ends thereof (see Fig. 3). The rectangular sheet 9 is scored, as indicated by the dotted lines 11, 12, and 14 to facilitate the bending of the sheet. The area bounded by the scoring 11 and 12, and the marginal edge of the sheet opposite to and parallel with the scoring 12, provides a partition or shelf 13 that is preferably the size of the interior of the body. The projecting portion 10 of the sheet 8 is preferably equal in length to the shelf or partition 13 and is in depth substantially equal to the height of the compartments, as will later appear. The scorings 14 are intended for the purpose of facilitating the bending of the sheet 9 to form the tubes or compartments and the spaces 15, 16, 17 and 18 between the scorings constitute the walls or sides 15, 16, 17 and 18 of the tubes or compartments. The scorings 14 may be spaced apart as desired according to the required depth and width of the said compartments, depending upon the particular use for which the box is to be employed. The tubes or compart-

ments are formed by bending the sections 18, 17, 16 and 15 at right-angles and successively in the order named, and as will be seen by reference to Fig. 4, the sections 18 become the upper walls of the tubes, and lie beneath or adjacent the underside of the shelf or partition 13. These upper walls 18 are preferably secured to the partition by paste or any other suitable means to retain the said tubes in their rectangular shape.

The projecting portion 10 of the sheet is bent downwardly at the scoring 12 at right-angles to the partition 13 to abut the ends of the tubes, as shown in Fig. 4. This portion 10 may be omitted under certain conditions and is here shown and described as additional means for securing the tubes and partition within the box, as will presently appear.

Thus, a single sheet of material is so cut and scored as to facilitate its being bent to form spaced tubes 19 supporting a partition or shelf 13. The partition 13 and tubes 19, as a unit, are inserted in the lower portion of the box body 3, as best shown in Fig. 3, and fixed therein by gluing or otherwise securing the walls 15 and 16 of the tubes to the ends 4 and bottom 6 of the box. The projection 10, previously referred to, may be secured to the rigid wall 5 of the box by glue or the like and serves as additional means to hold the partition and tubes firmly in place. When the previously bent or formed sheet is thus secured to the box, a plurality of compartments are provided—namely, those formed by the tubes 19, and a central compartment 20 which is enclosed by the walls 17 of the tubes, a portion of the partition 13 and the bottom 6 of the box. All of the compartments are closed at their rear ends by the projection 10 of the sheet, if used, or otherwise by the wall 5 of the box.

The box containing the compartments is preferably covered with paper or other material usually employed for box covering, and the edges of the tubes, box, etc., are suitably bound with covering to present a finished and artistic appearance, and the hinged side of the box is also covered in such a manner as to allow it to freely swing between open and closed positions (see Fig. 6).

An extension 21 may be provided and secured to the under side of the box and furnishes a projecting ledge or flange around the box which, when suitably covered, adds to the appearance of the said box.

A removable tray 22, as best shown in Fig. 6, is provided and is of such size and shape as to fit the compartment formed by the partition 13 and the upper walls of the box. This tray is adapted to contain candies or the like that may be arranged in an artistic manner for display purposes.

Trays or drawers 23 and 24 are provided

and are adapted to slide within the compartments 19 and 20 previously described. These trays 23 and 24 are also preferably covered with suitable covering material and may be used for containing candy or the like arranged for display purposes.

A cover C is provided and is adapted to embrace the upper edges of the ends 4 and side 5 of the box and to retain the hinged side 6 of the box in a closed position. This cover may be also provided with an extended ledge or flange 25 about its edges, and the whole is preferably covered with a suitable finishing material.

In use, candy or the like may be arranged in an artistic manner in the tray 22 as well as in the trays or drawers 23 and 24, and, by the removal of the cover, the hinged side 6 of the box is released to allow it to fall into its open position, whereby the upper tray and its contents are exposed and the trays 23 and 24 may be withdrawn from their respective compartments 19 and 20.

It will be observed that by the construction described, a display box is provided made up essentially of only two pieces of cardboard in addition to the usual cover. One piece of cardboard forms the box body and the other piece forms the partition and compartments therein, and both of said pieces may be readily stamped out in blank form and folded into the required shape with a minimum of labor and materials.

What I claim is:

1. A cardboard display box made up of two pieces, one piece bent upon four sides to form a box body, the other piece bent into a plurality of tubes mounted in the said box whereby a plurality of compartments are formed.

2. A cardboard display-box comprising, a body having a hinged side, a partition intermediate the top and bottom of said body and having its ends bent to form rectangular tubes which rest upon the bottom of the body to support the partition and provide compartments.

3. A cardboard display-box comprising, a box body having a cover and a hinged side adapted to be released by the removal of the said cover, a partition intermediate the top and bottom of said box body having its ends bent to form tubes adjacent the ends of said box, providing a plurality of separated compartments beneath the said partition.

4. A cardboard display-box comprising, a box body having a hinged side, a partition intermediate the top and bottom of said box formed of a single sheet of material bent at its ends to form spaced rectangular tubes, the bottom side of said tubes engaging the bottom of the said box and their opposite sides engaging the opposite ends of said box.

5. A cardboard display-box, comprising, a

box body having a front side hinged at its lower marginal edge, a partition forming a plurality of compartments in the lower portion of said box by being bent at its ends downwardly to form rectangular tubes at the ends of said box, and a portion of the partition bent downwardly and transversely of the said tubes to close the ends of the said tubes, which portion abuts the rear side of the said box body.

6. A cardboard display-box comprising, a box body with a hinged side, a partitioning member placed therein made of one piece and comprising a horizontal portion and end portions folded into rectangular tubes on one side thereof, dividing said box body into a plurality of compartments, and a removable cover with flanges embracing the four upper edges of the said box body.

7. A cardboard display-box comprising, a box body with a hinged side and a partitioning member secured thereon made of one piece comprising a horizontal portion and end portions folded into rectangular tubes on one side thereof dividing said box body into a plurality of compartments adapted to contain removable trays and open adjacent to said hinged side, and a removable cover with flanges embracing the four upper edges of said box body.

8. A cardboard display-box comprising, a box body made up of a piece comprising a bottom and four sides folded up from said bottom, one of said sides being free for a hinged movement, the other three sides being secured together, a partitioning member made of one piece secured within said

box body and comprising a horizontal portion and end portions folded into rectangular tubes on one side thereof, dividing said body into a plurality of compartments adapted to contain removable trays and open adjacent to the hinged side, and a cover member with flanges embracing the upper edges of the four sides.

9. A cardboard display-box comprising, a box body made up of one piece comprising a bottom and four sides folded up from said bottom, one of said sides being free for a hinged movement, the other three side walls being secured together, a partitioning member made of one piece secured within said box body and comprising a main portion dividing the said box body horizontally into an upper and a lower section and end portions folded into rectangular tubes on one side of said main portion dividing the said lower section vertically into three sub-sections, the said upper section and said three sub-sections adapted to contain removable trays and open adjacent to the hinged side, and a cover member with flanges embracing the upper edges of the four sides of said box body member.

10. A cardboard display box comprising, a box body, a partition intermediate the top and bottom of said body and having its ends bent to form rectangular tubes which rest upon the bottom of the box to support the partition and provide compartments.

In testimony whereof I have affixed my signature.

JOHN F. LYONS.